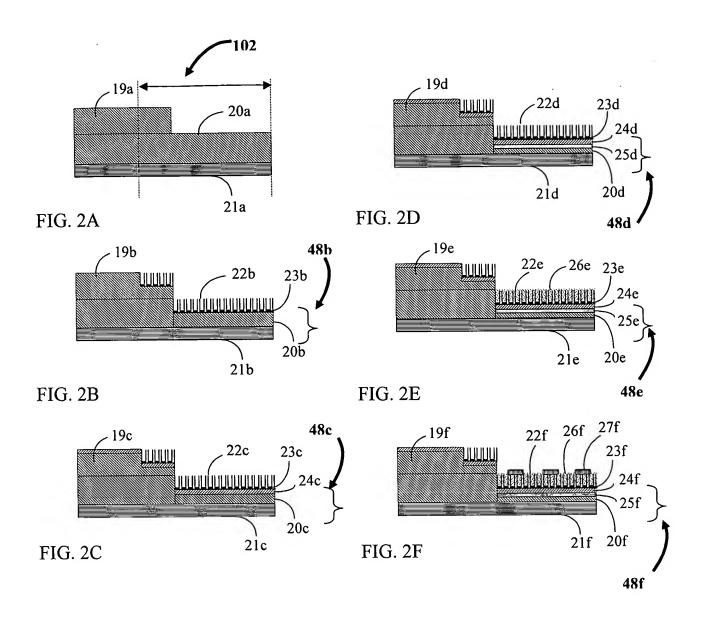
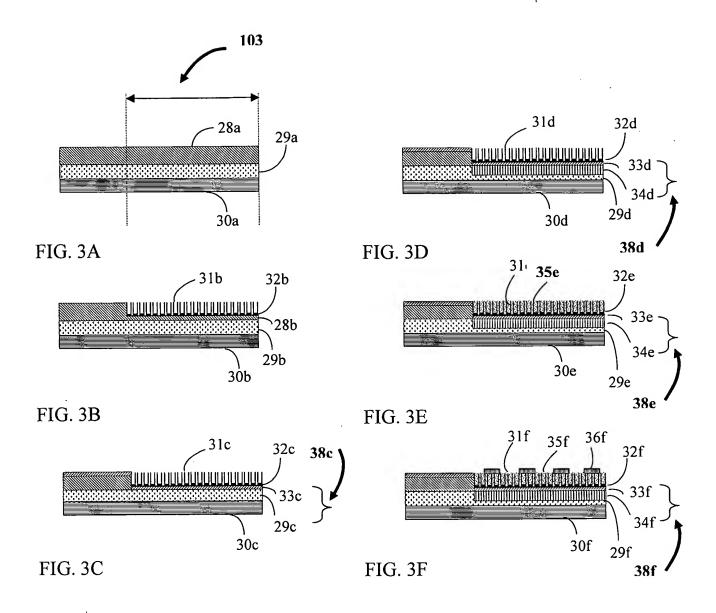


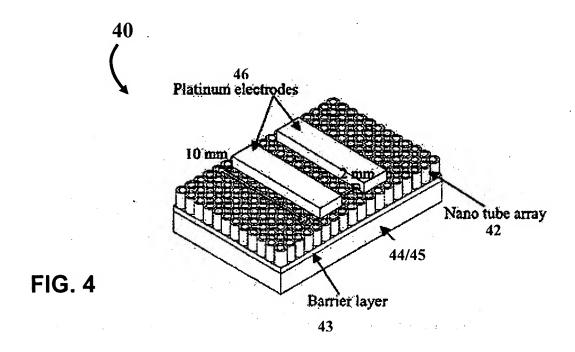
**FIGs. 1A - 1E** 



**FIGs. 2A - 2F** 



**FIGs. 3A - 3F** 



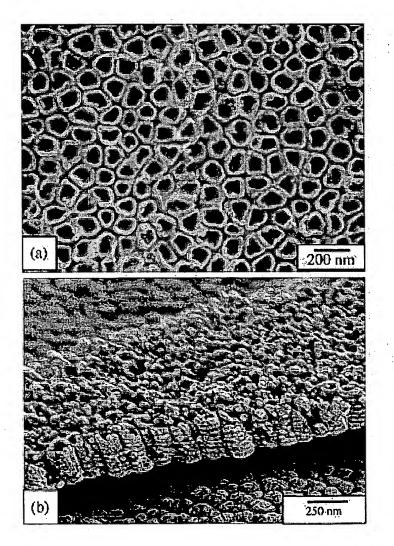
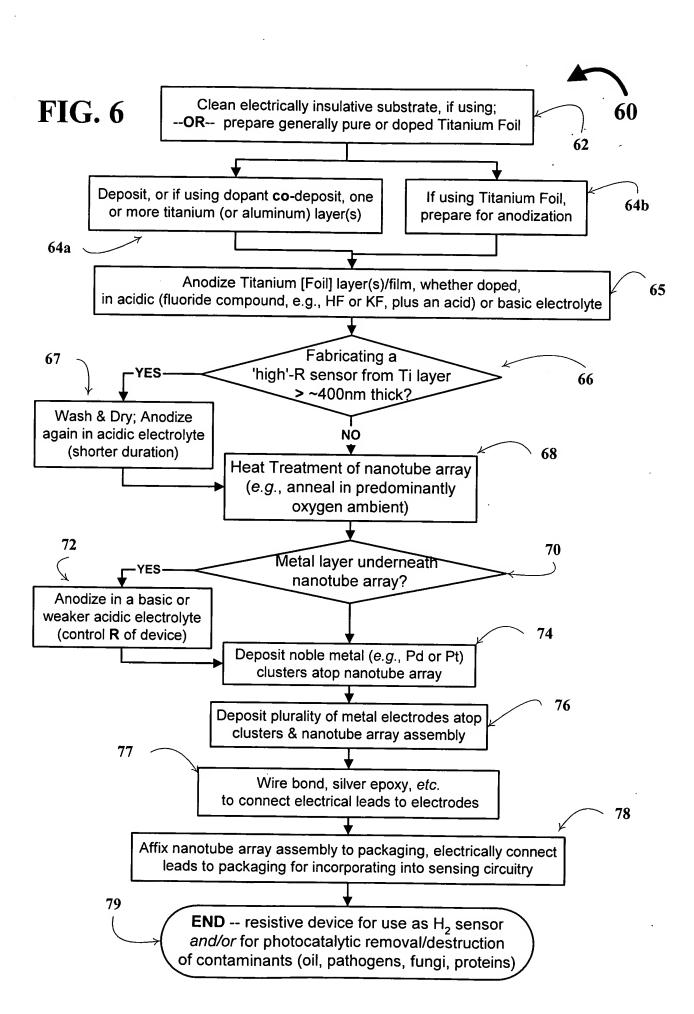
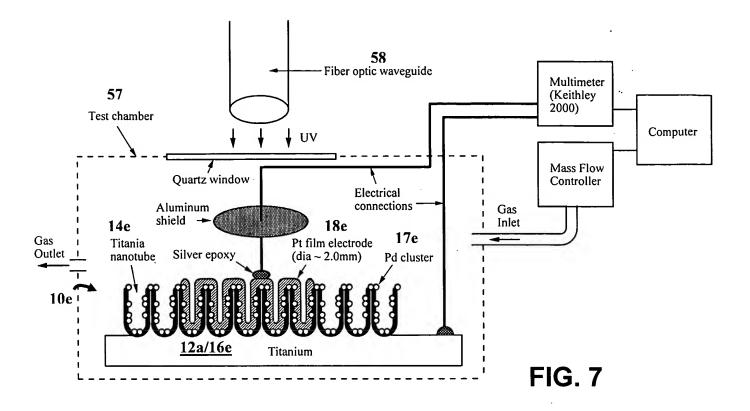
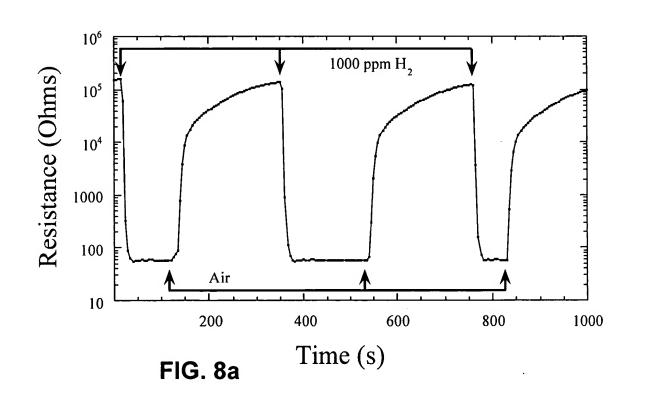


FIG. 5a

FIG. 5b







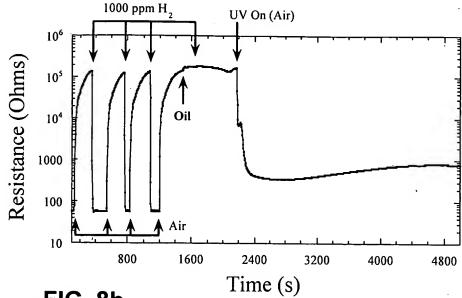


FIG. 8b

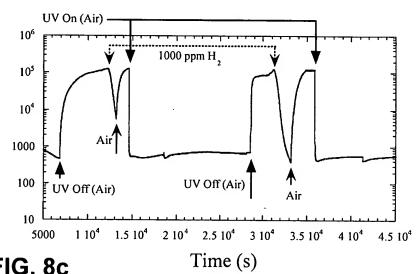


FIG. 8c

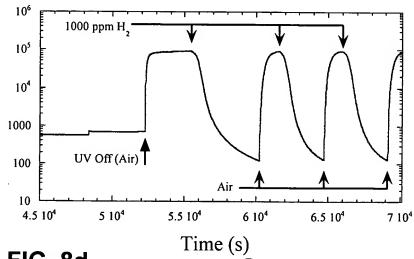
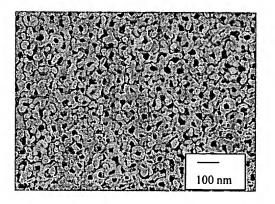


FIG. 8d

FIG. 8e  $10^6$ contamination 1000 ppm H (motor oil) 10<sup>5</sup> Resistance(Ohms) Resistance reduction 500ppm H <sub>2</sub> due to photoconductivity  $10^4$ air UV exposure in air UV off 1000 100 air 1 104 1.5 10<sup>4</sup> 2 10<sup>4</sup>  $2.5 \cdot 10^4$ 3 10<sup>4</sup> 5000 0  $3.5 \, 10^4$  $4 \, 10^4$ 

Time(seconds)



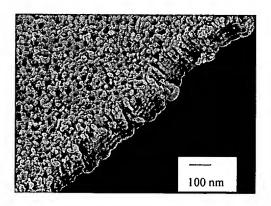


FIG. 9a

FIG. 9b

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